SEQUENCE LISTING

<110> University of Utah

<120> RAPID DIRECT SEQUENCE ANALYSIS OF MULTI-EXON GENES

<130> 21101.0047P1

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<151> 2002-12-17

<160> 694

<170> FastSEQ for Windows Version 4.0

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tttggaaata gcattatccc tga                                      23


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ctgagaacag gagcacagga   20

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ggattaaaga aggcatcgca                                          20


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gcaatccaga tcttccctaa g                                              21


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gtcttgggaa agggcataca                                                20


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cctataatca ttctgttaca gtctac                                         26


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gaagcctgtc agtttacaag aac                                            23


<210> 97
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      Construct
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ctgacctggc tttccatctc                                         20


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gctagttgct gagagggaac tg                                      22


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aagccagcat taacattgcc                                         20


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gaaggcaaat tggcacagac                                         20


<210> 103
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gatgctctcc aaacttgcct                                              20


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      Construct
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aagttcctgc ccaccctact                                             20


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cagaaactaa tatttgccat caaaa                                       25


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gagaagaatg agctgggctg                                             20


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aagcctcctc tctgcacttg                                             20


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      Construct
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cgagtcatat tgccctccac                                             20


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agcagcatca aagacaagca                                        20


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      Construct
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cgacaaattc agccatctca                                        20


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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 112
ttcctccacg gaactattgc                                        20


<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 113
ggctgcctag ggtgtagaaa                                        20


<210> 114
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 114
ttgattgcat gttgaaatga c                                      21


<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 115
tccgcaattc ctacatccat                                                20


<210> 116
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 116
gctttcgtag aagccgagtg                                                20


<210> 117
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 117
accaggagcc cagaggtaat                                                20


<210> 118
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 118
agggcaacac attaacagcc                                                20


<210> 119
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 119
ccattgttat aatactacca caagag                                         26


<210> 120
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 120
gtggcaattc acatcttcca                                                20


<210> 121
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
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    Construct
<400> 121
ccaaatttaa gccttgcctg   20

<210> 122
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
    Construct
<400> 122
tgaactgaac tgataggcag aaa   23

<210> 123
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
    Construct
<400> 123
gcaaagatca ttcatttgac ca   22

<210> 124
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
    Construct
<400> 124
agtcgaggac tgctgctttc   20

<210> 125
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
    Construct
<400> 125
gcttcattca ggcccaagta   20

<210> 126
<211> 21
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
    Construct
<400> 126
gacaaaccag acatctggac a   21

<210> 127
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
    Construct

<400> 127
agtttatggg cttgtggatg a   21

<210> 128
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 128
gcacacagac cctcagacaa   20

<210> 129
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 129
gcagagagat gctgaggtga   20

<210> 130
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 130
atctcccttg tgtgcaatcc   20

<210> 131
<211> 22
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 131
tgtgttatgt ggcctgaagt aa   22

<210> 132
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 132
caactgcagc ctttcacaat   20

<210> 133
<211> 21
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 133

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cctgtgggaa cacatacatg a                                        21
<210> 134
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 134
gcaatgggac aggataggaa                                          20

<210> 135
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 135
cagacagaat caacagggca                                          20

<210> 136
<211> 21
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 136
tggtgcaaag tgaatgagag a                                        21

<210> 137
<211> 25
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 137
tttgaagatg aatcgtatca gtcaa                                    25

<210> 138
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 138
ctacatcctt gccatttccc                                          20

<210> 139
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 139
tcctcccaga tatttgcctg                                          20
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<210> 140
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 140
ggaaagcaat agccaaacca                                          20


<210> 141
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 141
ctctcagctg aacaccctcc                                          20


<210> 142
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 142
cctgataaac agtccgcaca                                          20


<210> 143
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 143
cttgctgctg aattggaaga                                          20


<210> 144
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 144
ttgacaaagg atggatgcac                                          20


<210> 145
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 145
acttgccctc taacgtgcat                                          20


<210> 146
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<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 146
ggcaggtttg gtcaaagatt                                        20


<210> 147
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 147
cttggtggcc aaagcattat                                        20


<210> 148
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 148
gggctcaacc aaagagatga                                        20


<210> 149
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 149
tggcattatc tccttgaggg                                        20


<210> 150
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 150
tcccagaaag ccagaactat g                                      21


<210> 151
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 151
catagttctt taagcctcca tcg                                    23


<210> 152
<211> 20
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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 152
ccaaccaaat cctctccctt                                            20


<210> 153
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 153
tgaggagaca gcactgcaag                                            20


<210> 154
<211> 25
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 154
aaagggcacc tcataattaa ctctt                                      25


<210> 155
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 155
ctctgtggct tgcccattac                                            20


<210> 156
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 156
tgaagggtac gttgagatga tg                                         22


<210> 157
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 157
gaaaatagcc acctccacca                                            20


<210> 158
<211> 20
<212> DNA
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 158
atatcacgcc aaaaggatgc                                            20


<210> 159
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 159
tcactcatag ccaaggtgga                                            20


<210> 160
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 160
aagcaggtaa gcctggatga                                            20


<210> 161
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 161
ttacaactcc tgattcccgc                                            20


<210> 162
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 162
tcacaaatgt gatggggcta                                            20


<210> 163
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 163
atatggaacg cattttgggt                                            20


<210> 164
<211> 20
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 164
cctgtgtgga actactcgca                                                20


<210> 165
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 165
gccaggagga aactacacca                                                20


<210> 166
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 166
ggtccagcgt cacataaagg                                                20


<210> 167
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 167
actcccaagc agtagcagga                                                20


<210> 168
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 168
catgccatgt gatgtttatg c                                              21


<210> 169
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 169
agcccatgaa ctgtgtttcc                                                20


<210> 170
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 170
agcaatgagg atgattgatt ga                                                      22

<210> 171
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 171
gggcacttat actctgggca                                                         20

<210> 172
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 172
cgccttctct ctcaagttgg                                                         20

<210> 173
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 173
tcaactaagg ctgaatggca                                                         20

<210> 174
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 174
atgcccagaa taatccatgc                                                         20

<210> 175
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 175
ccatatctag aagctttatt ctgtttt                                                 27

<210> 176
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
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         Construct
<400> 176
gaatctgctt tacagtggtt gag                                              23


<210> 177
<211> 20
<212> DNA
<213> Artificial Sequence
<220>           .
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 177
tgatcagatg gggattgaca                                                  20


<210> 178
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 178
ttcattaaag ccacaaccca                                                  20


<210> 179
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 179
gcatacaggg tgccagactt                                                  20


<210> 180
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 180
tagaccagct gggtcgacat                                                  20


<210> 181
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 181
ctcagtcatg ctctgtggga                                                  20


<210> 182
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
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<400> 182
atcaaaacaa ccccatggaa                                        20


<210> 183
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 183
caatagcccc attgctcagt                                        20


<210> 184
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 184
aagagggcac aagctttgaa                                        20


<210> 185
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 185
cgttctgcaa gaatcccaat                                        20


<210> 186
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 186
tctgaccata aaagcgtgga                                        20


<210> 187
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 187
cactgtgcta ttctggtttg ga                                     22


<210> 188
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 188
```

```
tttatgcttc tttgcaaact actg                                24
```

```
<210> 189
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 189
attttaattt ggatgcccca                                     20
```

```
<210> 190
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 190
tcttcttctg ctgggtgaca                                     20
```

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<210> 191
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 191
ttactcttgc tattcaaact aattcaa                             27
```

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<210> 192
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 192
ttttctgcag gcggtagagt                                     20
```

```
<210> 193
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 193
gctaaaaacg taccaggcca                                     20
```

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<210> 194
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 194
ggagcagcct atcaggtcag                                     20
```

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<210> 195
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 195
tccagttgac ctctttaatc tgc                                              23


<210> 196
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 196
ccgtgatgat ccttaacatt tc                                               22


<210> 197
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 197
tggcatagat accaatgaat cag                                              23


<210> 198
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 198
tgtatcccat agaacactgg aaaa                                             24


<210> 199
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 199
aggactatgg gcattggttg                                                  20


<210> 200
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 200
ttttcctaaa agtcttcact gcaa                                             24


<210> 201
```

```
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 201
tgctcatctc attggtctgc                                           20


<210> 202
<211> 22
<212> DNA
<213> Artificial Sequence .
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 202
caatgaagca aaattgaaaa gg                                        22


<210> 203
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 203
aagtgccttc attctgggag                                           20


<210> 204
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 204
gaaaccatta cgggaattca t                                         21


<210> 205
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 205
ggattttgac cgctatttga a                                         21


<210> 206
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 206
gttggccgat caggtagaaa                                           20


<210> 207
<211> 20
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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 207
gtggttttgg gattctgcaa                                              20


<210> 208
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 208
cagtgcatct atctaacatc tgctc                                        25


<210> 209
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 209
aatagttccg gggtgactga                                              20


<210> 210
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 210
ggaggggact tattcaagcc                                              20


<210> 211
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 211
tggcttggaa tggttttagg                                              20


<210> 212
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 212
gattttaccc atccgcagtt                                              20


<210> 213
<211> 21
<212> DNA
```

```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 213
ttgcttgtct ctttgctttt c                                               21


<210> 214
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 214
catacggcca gtttttgaag a                                               21


<210> 215
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 215
tcgatgggca aacatctgta                                                 20


<210> 216
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 216
ttgaaaaaca aagttgaaaa tcca                                            24


<210> 217
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 217
gaacttttga tcctttgcgg                                                 20


<210> 218
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 218
tcaccaccat tctccaacaa                                                 20


<210> 219
<211> 22
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 219
tgttgagatt actttccctt gc                                    22


<210> 220
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 220
ttgcgatagt gatttcttgt ga                                    22


<210> 221
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 221
aacagggaaa atagtgctgc t                                     21


<210> 222
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 222
ggcatcccta gtcagtcaca g                                     21


<210> 223
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 223
tcatgaaaat ggctcatgct                                       20


<210> 224
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 224
ccacatccca ttttcttcca                                       20


<210> 225
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 225
ttgttgtgac gcaagtctga   20

<210> 226
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 226
ttgcgcttag ctaaatcctt   20

<210> 227
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 227
ggctggtgat agaggcttgt   20

<210> 228
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 228
tcacaaaatt attatgagga caaaaa   26

<210> 229
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 229
atgtgtaagg tccctggcat   20

<210> 230
<211> 19
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 230
ttttcatttg ctcaatggg   19

<210> 231
<211> 27
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic

Construct
<400> 231
tcagaaaaat acatatggag tgttaaa   27

<210> 232
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 232
aaggaataag caaatcgcca   20

<210> 233
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 233
gcctcaagaa ctacttagag acatcc   26

<210> 234
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 234
aggcaatgtt ttgtcagttc c   21

<210> 235
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 235
cccactggat tcatgccata   20

<210> 236
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 236
ttttaggatc aaaataagat gaatgtg   27

<210> 237
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct

39

<400> 237
tgagtgtatc tgatccccat ga   22

<210> 238
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 238
tctgatcccc atgagttatt ttc   23

<210> 239
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 239
tttatggaag agactggagt tca   23

<210> 240
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 240
ggagaaaatt tataggattt tatgacc   27

<210> 241
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 241
tttcttaatg acttttgatt gtagagg   27

<210> 242
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 242
gaagccattt aaaccctttg c   21

<210> 243
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 243

gcaaaaatgc tccttggtgt   20

<210> 244
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 244
cagtgtctgg cattggattg   20

<210> 245
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 245
ggaggaacat tcgacctgag   20

<210> 246
<211> 25
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 246
tcctacctac ctccaaatag tcaaa   25

<210> 247
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 247
cccataggga agaaataaat cg   22

<210> 248
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 248
catacatttg ggagaatgat tcag   24

<210> 249
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 249
tcctgtgttg gatgaatgga   20

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<210> 250
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 250
gccacaatac atgtgccaat                                              20


<210> 251
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 251
accgctgcaa aatgctactc                                             20


<210> 252
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 252
ctgaataagc agagcctcac tg                                          22


<210> 253
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 253
acgatgtcat ctgccctagc                                             20


<210> 254
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 254
tcatggtcct gaaaagcaca                                             20


<210> 255
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 255
tcatagttac ccaacaatga agc                                         23


<210> 256
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<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 256
agtttcattg agattagttt taagtgg   27

<210> 257
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 257
cgcaatattc tatatgaaaa taccact   27

<210> 258
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 258
tgagtgatgg atttgaacag aaa   23

<210> 259
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 259
ccctttgtat tttctgcatg tg   22

<210> 260
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 260
gggaggagtg gcgtttatct   20

<210> 261
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 261
tgcatgtatg ttcagctctg g   21

<210> 262
<211> 20

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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 262
tcaaaagaaa attgctgggc                                      20


<210> 263
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 263
caggtgcccc taaaaatgtg                                      20


<210> 264
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 264
gcaacacatc gttcaaaatc a                                    21


<210> 265
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 265
cttcctatac atgggtcccg                                      20


<210> 266
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 266
caaggaaatg catcaaatca aa                                   22


<210> 267
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 267
gggttattga gcgaggatga                                      20


<210> 268
<211> 20
<212> DNA
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 268
aagcccaaag tgagggaaac                                           20


<210> 269
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 269
gcttttaaca ctttctggaa aagtaag                                   27


<210> 270
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 270
agatttctga agccaaccac a                                         21


<210> 271
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 271
caccatttgc tacctttggg                                           20


<210> 272
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 272
ttcagctcat ttgtctgaat tg                                        22


<210> 273
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 273
ttgtgtgtac atgctaggtg tg                                        22


<210> 274
<211> 20
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 274
ccaggcaaac tctctcatcc                                              20

<210> 275
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 275
gggaaatttt cacatggagc                                              20

<210> 276
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 276
cctttaagca atcatgggtg a                                            21

<210> 277
<211> 25
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 277
tgaatcagaa tttttcttgt tcgat                                        25

<210> 278
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 278
taagcgctag ggttacaggc                                              20

<210> 279
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 279
gaggggtga gtgtttcagt                                               20

<210> 280
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 280
aaagccattc accatcatca                                              20


<210> 281
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 281
tcagttgcag ttggctatgc                                             20


<210> 282
<211> 17
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 282
gtgaggttgg tttagcc                                                17


<210> 283
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 283
tctgtttctt ttctctgcac ca                                          22


<210> 284
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 284
gagtccttta aagcaatgac tcg                                         23


<210> 285
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 285
tatttgatgg gtggttggct                                             20


<210> 286
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
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        Construct
<400> 286
ccgttgtcat gcaacacttt                                              20


<210> 287
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 287
tcatgaataa gagtttggct ca                                           22


<210> 288
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 288
ttaggctgaa tagtgagagt aatgtg                                       26


<210> 289
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 289
cggaatgtct ccatttgagc                                              20


<210> 290
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 290
tgctttgcaa ctatataagc cc                                           22


<210> 291
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 291
tgttgttcat catcctagcc a                                            21


<210> 292
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
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<400> 292
agcctgggtg acagtgagac                                           20


<210> 293
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 293
tttgtcctga aaggtgggtt                                           20


<210> 294
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 294
agaagtctga gccaagtccg                                           20


<210> 295
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 295
tgtcattctt gcatgccttc                                           20


<210> 296
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 296
cctccttgtc caaataccga                                           20


<210> 297
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 297
caatacgcca agaaaaggga                                           20


<210> 298
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 298
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tgatgtctta atatgcatgt ctcc   24

```
<210> 299
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 299
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cctctgtttt gtggctctca   20

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<210> 300
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 300
```
gccaaaagag atggacgatt   20

```
<210> 301
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 301
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aacacagcgc tttcctcatt   20

```
<210> 302
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 302
```
ttcctcctca cagataactc cc   22

```
<210> 303
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 303
```
gggctgtatc aaaatttatg cc   22

```
<210> 304
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 304
```
ttgtgggaag ataacactgc ac   22

```
<210> 305
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 305
actggcactg caccctaaag                                          20


<210> 306
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 306
aatttgaaaa tgtttagatg ggaa                                     24


<210> 307
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 307
atcctttgtg tttggccttg                                          20


<210> 308
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 308
atccaattgg ccttcctctt                                          20


<210> 309
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 309
cgcatttatc tttgtgcctg                                          20


<210> 310
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 310
cgcaaagatt gactcccact                                          20


<210> 311
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```
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 311
gggcctttct gcttgtaaga                                           20


<210> 312
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 312
caaagaccta taggccctct ca                                        22


<210> 313
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 313
gttgtcaaag ggcaaaagga                                           20


<210> 314
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 314
agctgaggaa tggtgacagg                                           20


<210> 315
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 315
tgtggttcac gtttggtgtt                                           20


<210> 316
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 316
gagagcaatc tacattctgg ctc                                       23


<210> 317
<211> 20
```

```
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 317
tggttgaatt tccattgcat                                        20


<210> 318
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 318
ttgacaagga atggcacaaa                                        20


<210> 319
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 319
gcacaaatta gaagtaaccc ca                                     22


<210> 320
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 320
cctgctgcag atggagattt                                        20


<210> 321
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 321
agctgtgaaa agccagccta                                        20


<210> 322
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 322
gggtagctct ttggatatca gg                                     22


<210> 323
<211> 21
<212> DNA
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 323
agctgagttt ttcttccctc c   21

<210> 324
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 324
gaagcctaca gttgagagcc a   21

<210> 325
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 325
ttgagtagcc tagtaagctt gtatgt   26

<210> 326
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 326
aaagtggcaa ctggacatca g   21

<210> 327
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 327
gatcaaaggg gacgtcttca   20

<210> 328
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 328
atgtccagtt gccactttcc   20

<210> 329
<211> 20
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 329
cgatgggaat tttccagaga                                              20


<210> 330
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 330
ccggaaatgt ttaaaagcca                                              20


<210> 331
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 331
tggtctacca cacactgcct                                              20


<210> 332
<211> 41
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 332
aagatcacgt ttccactccc tggtagatca caacctcagc a                     41


<210> 333
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 333
ctgcaaatgg agctaaacag a                                           21


<210> 334
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 334
gcctcttttg cttgctgttc                                              20


<210> 335
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
```

<223> Description of Artificial Sequence; Note=Synthetic
     Construct
<400> 335
tcactttgca ggcacatacc   20

<210> 336
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
     Construct
<400> 336
gggagcacaa ttcagataca aa   22

<210> 337
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
     Construct
<400> 337
acaagttttc tgtgggccag   20

<210> 338
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
     Construct
<400> 338
tgtatggatt tcttcttccc ttt   23

<210> 339
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
     Construct
<400> 339
gaaacatgtt gccctcacg   19

<210> 340
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
     Construct
<400> 340
gctgcaagtg gagaggtgac   20

<210> 341
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic

Construct
<400> 341
gggactacaa aggattgcca   20

<210> 342
<211> 21
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 342
ttcttcctgg aaactggtga a   21

<210> 343
<211> 27
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 343
gcacacttta gtttacaatc tttcttt   27

<210> 344
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 344
aacaatggca ggttttacac g   21

<210> 345
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 345
aagcaggtaa gcctggatga   20

<210> 346
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 346
ggcaggcttg agttttcatt   20

<210> 347
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct

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<400> 347
tactccttca cagggatggg                                          20


<210> 348
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 348
acattcagct tcctgctgct                                          20


<210> 349
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 349
aacctgtcta atccaccaag aa                                       22


<210> 350
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 350
caggtatcaa cccagaagcc                                          20


<210> 351
<211> 22
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 351
gagctttggg ttttcttttg aa                                       22


<210> 352
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 352
tttggagagt gggctgacat                                          20


<210> 353
<211> 24
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 353
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ggtggttata aagaacacaa cacg                                   24

<210> 354
<211> 47
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 354
aaatcagagg taaatagagt gcataaaggg gaaggggtag ttaggag        47

<210> 355
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 355
tactcattgc agtcgcaagc                                        20

<210> 356
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 356
tgatgatgcc aacagtctga a                                      21

<210> 357
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 357
gcataattca caactgaaat ttagga                                 26

<210> 358
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 358
gtagaggccc ccggatatt                                         19

<210> 359
<211> 27
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 359
aaaacagaat aaagcttcta gatatgg                                27
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<210> 360
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 360
gaatctgctt tacagtggtt gag                                          23


<210> 361
<211> 24
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 361
ggtgtcttca taataatcag ctcc                                         24


<210> 362
<211> 19
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 362
ctcacaacaa aagccccaa                                               19


<210> 363
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 363
tcagccaaaa tttcagtgtg                                              20


<210> 364
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 364
gcagagtttg aagagctcgg                                              20


<210> 365
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 365
ccaataagtt gcctgcccta                                              20


<210> 366
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<211> 26
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 366
tgtgaaggag aaaaataaat agcaaa                                    26

<210> 367
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 367
tcagcaaacc ttgcattttt                                          20

<210> 368
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 368
cacgctcctg catcagaata                                          20

<210> 369
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 369
caaagcctcc attcattgt                                           19

<210> 370
<211> 26
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 370
tgatttccca tttaatacac attttt                                   26

<210> 371
<211> 21
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 371
gcagttctca gcttctttcc a                                        21

<210> 372
<211> 20
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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 372
gctctgtcat gtgcccacta                                              20


<210> 373
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 373
ctgccctaac tctcaagttg c                                            21


<210> 374
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 374
attggtttga aggtcccaga                                              20


<210> 375
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 375
ttccaaggaa agactggctg                                              20


<210> 376
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 376
accagctcta tgccaaggtg                                              20


<210> 377
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 377
tcaatgaggg agaaagtgcc                                              20


<210> 378
<211> 20
<212> DNA
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 378
gttgaggaag ggctgcatta   20

<210> 379
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 379
gcattgcaag tcttggatca   20

<210> 380
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 380
tcaatatact gagcagccct c   21

<210> 381
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 381
agctccaagt gtcaggaagc   20

<210> 382
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 382
tcagtattct ccagtgagca gg   22

<210> 383
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 383
ctccttaggc acggtcatgt   20

<210> 384
<211> 21
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 384
cacgagagaa caggaagctc a                                        21

<210> 385
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 385
gcttcctgtt ctctcgtgtt c                                        21

<210> 386
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 386
cttccactcc tggcccctt                                           18

<210> 387
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 387
cctggtctca ggaatctcca                                          20

<210> 388
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 388
gagagagggt gaggttgacg                                          20

<210> 389
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 389
tcagaagtga cagcgtttgc                                          20

<210> 390
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 390
tccttcccta catcacccaa                                              20


<210> 391
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 391
tggcacttgg tgatatgata aga                                          23


<210> 392
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 392
gtgcgaggga gaaagtgc                                                18


<210> 393
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 393
agagaaatgc ctgaatcgtg                                              20


<210> 394
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 394
agaagacccg gaggatgaat                                              20


<210> 395
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 395
ttgtgggcag gactgtgata                                              20


<210> 396
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
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Construct
<400> 396
gtgtcaccag aagcaagcag   20

<210> 397
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 397
ctgagccact ggccacatta   20

<210> 398
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 398
gactttgggc ttctcactgc   20

<210> 399
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 399
aggtcagttt gagagagcca t   21

<210> 400
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 400
tgtgggtctg gacaacacag   20

<210> 401
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 401
tatccttgtc acttgcacga   20

<210> 402
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct

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<400> 402
aagctggttc tgtctcagcc                                              20


<210> 403
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 403
ggccttgagc atttcacaat                                              20


<210> 404
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 404
ctccttaagt ttccctgggc                                              20


<210> 405
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 405
ggctggagag gtgtgaagag                                              20


<210> 406
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 406
gctttccaga gccatctgtc                                              20


<210> 407
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 407
ggcagctctg atcaggaaag                                              20


<210> 408
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 408
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ttgactgcat ttcgcatctc   20

<210> 409
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 409
tgaaccatga ccctcctctc   20

<210> 410
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 410
gatgtgcagg cagagaatca   20

<210> 411
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 411
gacctgaaga cacacgggtt   20

<210> 412
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 412
cgcactccgc ctctactact   20

<210> 413
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 413
cctgggttac agagtaggcg   20

<210> 414
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 414
gcagccactg aaagaagtcc   20

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<210> 415
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 415
gagatgcgaa atgcagtcaa                                              20


<210> 416
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 416
tctgcagaca gcctagagca                                              20


<210> 417
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 417
atggcaaagg gagggttact                                              20


<210> 418
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 418
cccgttgtac atgacccatt                                              20


<210> 419
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 419
cagcgaacac tggattctga                                              20


<210> 420
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 420
tggctctctc aaactgacct aa                                           22
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<210> 421
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 421
ttgtgggcag gactgtgata                                                      20


<210> 422
<211> 20·
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 422
gtgtcaccag aagcaagcag                                                      20


<210> 423
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 423
gctgccaaat acccaaatgt                                                      20


<210> 424
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 424
tctgagagag agcaaagggc                                                      20


<210> 425
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 425
ttctggagat ggatgttgtt c                                                    21


<210> 426
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 426
tcccaactca gtttcaaccc                                                      20


<210> 427
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<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 427
ggtgctcagg gactctcttg                                                    20


<210> 428
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 428
gcaggttggg ttgaacttgt                                                    20


<210> 429
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 429
tgtcagtcag aaatgcagcc                                                    20


<210> 430
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 430
agggcggaag tagttccaat                                                    20


<210> 431
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 431
tgtcaccagt ccctctcctc                                                    20


<210> 432
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 432
ctgagacagg cacagcactt                                                    20


<210> 433
<211> 20
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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 433
atggaggtgc agtaggttgg                                              20


<210> 434
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 434
gcttgaacaa attcaaattc ca                                           22


<210> 435
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 435
tcatccatct tcccattgct                                              20


<210> 436
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 436
gcgtgtgcac tgacacctat                                              20


<210> 437
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 437
gaagccagtg gtgagatggt                                              20


<210> 438
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 438
cattcacagg gaacatgtgg                                              20


<210> 439
<211> 20
<212> DNA
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 439
taaactgcta ggcgtggagg                                            20


<210> 440
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 440
tggatcattg cctgtgatgt                                            20


<210> 441
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 441
ttctgagaac ccaagggtta ag                                         22


<210> 442
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 442
cagcagccac ttcctgagat                                            20


<210> 443
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 443
tacagagagc cccgtgagtt                                            20


<210> 444
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 444
agccatcagc catattcagg                                            20


<210> 445
<211> 20
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 445
catcaatgca tgtgggatgt                                                  20


<210> 446
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 446
gtctagtatc gggccaacca                                                  20


<210> 447
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 447
tgtgttgaat tccctgcaac                                                  20


<210> 448
<211> 20
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<210> 449
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<210> 450
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gaaagctggt ctggactgga   20

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<210> 453
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<210> 455
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<210> 456
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<210> 457
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<210> 458
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<210> 459
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<210> 460
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<210> 461
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<210> 462
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agtagtggca ccctggaatg                                            20


<210> 463
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      Construct
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ctgtttgcgg ccttctactc                                            20


<210> 464
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<210> 465
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<223> Description of Artificial Sequence; Note=Synthetic
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gacagtcctt ggcctctcag                                            20


<210> 466
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      Construct
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<210> 467
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ttctgggaag ggttctgttg                                            20


<210> 468
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<400> 468
gagcagacgc ttctcattcc                                            20


<210> 469
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      Construct
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<210> 470
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<210> 471
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<210> 472
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<223> Description of Artificial Sequence; Note=Synthetic
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<210> 473
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<223> Description of Artificial Sequence; Note=Synthetic
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<210> 474
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<400> 474
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<210> 475
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tcctcaaaga cacccaggac                                          20
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<210> 477
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
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ttggttggca ttcaactctg                                        20


<210> 478
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
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<400> 478
caggtctgca tctgtgccta                                        20


<210> 479
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 479
ctccaggagg tggtagatgg                                        20


<210> 480
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 480
gatctgtggg tgttcccagt                                        20


<210> 481
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<220>
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<400> 481
gctgtggttg ggaaatagga                                        20
<210> 482
<211> 20
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
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ctggatttca gagggagcag                                        20

<210> 483
<211> 20
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
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aagtggtcca gtcttggtgc                                        20

<210> 484
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 484
cgaaagccag atgtctccat                                        20

<210> 485
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 485
atctgccata accagcttcg                                        20

<210> 486
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 486
agggacttgt ctgctgtgct                                        20

<210> 487
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 487
ctcacagaca ccagcagctc                                        20

<210> 488
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 488
cagcccatag cactctctcc                                          20


<210> 489
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
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gaggaagagt ccatgtggga                                          20


<210> 490
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 490
ccatggtttg cagcctctat                                          20


<210> 491
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
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gtttatgggt cgctgcatct                                          20


<210> 492
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 492
gcagctgaac ttggcatgta                                          20


<210> 493
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 493
gcactggatg cattacctga                                          20


<210> 494
<211> 20
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 494
gggctctcct tcctgtctct                                          20


<210> 495
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 495
ctttctggct cacaatgcaa                                          20


<210> 496
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 496
cagacctgcc ttactctggc                                          20


<210> 497
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 497
ctttctggct cacaatgcaa                                          20


<210> 498
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 498
gcttctgttg acagccactg                                          20


<210> 499
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 499
gcctagacct agtggccaga                                          20


<210> 500
<211> 20
<212> DNA
<213> Artificial Sequence
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 500
gggctccttg tcatcaatgt   20

<210> 501
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 501
ggagagcttc ctgtgtgacc   20

<210> 502
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 502
agggtgacaa cctggaacag   20

<210> 503
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 503
aggtcaggat ttgccacaac   20

<210> 504
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 504
cacagaaaca gggtttccca   20

<210> 505
<211> 25
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 505
aacctgtgtc acttgcataa ttaaa   25

<210> 506
<211> 21
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic

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        Construct
<400> 506
gggtcaccag tgtaggtacg a                                        21


<210> 507
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 507
gaagacatac ccaagacttg g                                        21


<210> 508
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 508
acctgggact ctgccatga                                           19


<210> 509
<211> 20
<212> DNA
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<223> Description of Artificial Sequence; Note=Synthetic
        Construct                          .
<400> 509
cttgaagcct tcctgatgct                                          20


<210> 510
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 510
cctctagctc ttgctacaaa caca                                     24


<210> 511
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 511
aattctccct ccatcccatc                                          20


<210> 512
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
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<400> 512
gtccagagct gaggagcaag                                        20


<210> 513
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 513
acaggctgct gtccaagttt                                        20


<210> 514
<211> 20
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 514
gcatctcaga cacacggaga                                        20


<210> 515
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 515
cctagcaggg aggagctgta                                        20


<210> 516
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 516
gcatcctcat ggctcacttt                                        20


<210> 517
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 517
aaagtgagcc atgaggatgc                                        20


<210> 518
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 518
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tcttcaaagc caatcatcca   20

<210> 519
<211> 20
<212> DNA
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 519
ctgaacggtg ctctttgaca   20

<210> 520
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 520
ctttagaagc cctggtgctg   20

<210> 521
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 521
tcttaaggcc ttcccatcct   20

<210> 522
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 522
aagcaactcc caatcctgtg   20

<210> 523
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 523
tttcagcagg agacggaact   20

<210> 524
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 524
ctgctctcac agatgagcgt   20

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<210> 525
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 525
taattgaaga ggtgggtggc                                                    20

<210> 526
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 526
tgctttgcag acattggtaa t                                                  21

<210> 527
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 527
gaaatgctca ttgctgctga                                                    20

<210> 528
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 528
tccagcaaac acattcctga                                                    20

<210> 529
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial. Sequence; Note=Synthetic
      Construct
<400> 529
gagacccgtg agacaccagt                                                    20

<210> 530
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 530
ccaagtgaaa ggaaacccaa                                                    20

<210> 531
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<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 531
gctctgtttc cagagttggc                                              20


<210> 532
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 532
aataggccaa agccagaggt                                              20


<210> 533
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 533
tctcagatga cagaattact ccaa                                         24


<210> 534
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 534
cagagctgct gccaggat                                                18


<210> 535
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 535
ctggccaaca tggtgaaac                                               19


<210> 536
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 536
gatgcatggc agagtgctaa                                              20
<210> 537
<211> 24
<212> DNA
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 537
cctgttgatc atattgtcaa ggaa                                          24


<210> 538
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 538
agggattagg gagccagaga                                               20


<210> 539
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 539
gcacccagtc cagttagaga                                               20


<210> 540
<211> .20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 540
ttagagctgt tgttgcctgg                                               20


<210> 541
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 541
tcttgggtgg gtcacttagc                                               20


<210> 542
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 542
tcccttgaga aattcccagt c                                             21


<210> 543
<211> 20
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 543
atggacagct tggaaggtca                                          20


<210> 544
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 544
ctggttcttg caccctcttc                                          20


<210> 545
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 545
tggtcaggac agagccttct                                          20


<210> 546
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 546
aaactgtgca ccaactgtgg                                          20


<210> 547
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 547
agatggccaa gccctaagtt                                          20


<210> 548
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 548
cttccactcc tggccctt                                            18


<210> 549
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 549
tcaccagccc atttaaggag   20

<210> 550
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 550
ctggaataga gtgtgtggcg   20

<210> 551
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 551
tcagaagtga cagcgtttgc   20

<210> 552
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 552
caagcagcat ctgcattgtt   20

<210> 553
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 553
ctccatctga ataaaggtag cg   22

<210> 554
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 554
cgctccactg cctctctaat   20

<210> 555
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic

Construct
<400> 555
atactttccc agggaggacg   20

<210> 556
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 556
gagtgtgcaa aggcatgtgt   .   20

<210> 557
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 557
atttaagcct tgggagtcgg   20

<210> 558
<211> 22
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 558
gcctggaaca tagtaggtgc tc   22

<210> 559
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 559
ctctgtcctt ggaagatgca c   21

<210> 560
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 560
gaccctcttc catatttccc a   21

<210> 561
<211> 21
<212> DNA
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct

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<400> 561
ccttgccata tgcagtaaga g                                          21


<210> 562
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 562
tagggctgtt gtgaggaagg                                            20


<210> 563
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 563
aggagggatg gagtgggtat                                            20


<210> 564
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 564
cctgccagtc cactcctaga                                            20


<210> 565
<211> 19
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 565
cgccatatct cctttggct                                             19


<210> 566
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 566
gcacctcagc tatcaggacc                                            20


<210> 567
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 567
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cacacaaatc cacaagccct   20

<210> 568
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 568
caccctgtat gttgccttgg   20

<210> 569
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 569
aacacagcca ggtggaattt   20

<210> 570
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 570
caggcctgag agaagcaca   19

<210> 571
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 571
tgttgggttg taactgccct   20

<210> 572
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 572
attcctgctc ccaccgtct   19

<210> 573
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 573
tagaccctcc ctccaaatcc   20

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<210> 574
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 574
gctggttgtt gaggtggaat                                         20

<210> 575
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 575
gagatgcgaa atgcagtcaa                                         20

<210> 576
<211> 19
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 576
agcacaaaga tgtgcaggc                                          19

<210> 577
<211> 22
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 577
tgataatctc cagtctgctc ca                                      22

<210> 578
<211> 22
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 578
gcagtggctt actgtttcct tt                                      22

<210> 579
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 579
caggacacat gcacttgagg                                         20

<210> 580
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<211> 20
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
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actttcctcc acatggcaaa                                        20


<210> 581
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
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acagagtgct gtgtgttggg                                        20


<210> 582
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 582
gacactggag cgaaatgtca                                        20


<210> 583
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 583
ttgcatgacc catgactacc                                        20


<210> 584
<211> 20
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 584
cttcccaact ccctggtcac                                        20


<210> 585
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 585
gagcctttct cctgtccaag                                        20


<210> 586
<211> 20
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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 586
ctaggtgctc tccagggttg                                              20


<210> 587
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 587
ttaaggagag tcagcctggg                                              20


<210> 588
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 588
caagagagtc cctgagcacc                                              20


<210> 589
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 589
gggttgaaac tgagttggga                                              20


<210> 590
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 590
ggaagctcag ctgtacccat                                              20


<210> 591
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 591
ttcccatgcc caagtatttc                                              20
<210> 592
<211> 18
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 592
cctctgccct tcccatct                                                    18


<210> 593
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 593
gcctaaggtc acacagctcc                                                  20


<210> 594
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 594
cacattactc cctgcaccg                                                   19


<210> 595
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 595
gactgccctc aagtttcagc                                                  20


<210> 596
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 596
aactccctgt ttggcatctg                                                  20


<210> 597
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 597
cagcctggca gctcttctat                                                  20


<210> 598
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 598
atagggtgac agggatgtgg   20

<210> 599
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 599
tctgtgggac tggagaaagg   20

<210> 600
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 600
ttctgtgacc cgtagagcct   20

<210> 601
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 601
tatgccgtgt agggattgtg   20

<210> 602
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 602
agagggcttg gcgttgttc   19

<210> 603
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 603
ctcccaaagt gctgggatta   20

<210> 604
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic

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        Construct
<400> 604
gcttgtcacc caaatgacct                                        20


<210> 605
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 605
cagcctctta caggcgtttc                                        20


<210> 606
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 606
cagagggatg tgcaatgaga                                        20


<210> 607
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 607
actggagatg ttcctcgcac                                        20


<210> 608
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 608
aggacattgg aatggagctg                                        20


<210> 609
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
<400> 609
agctgtttgg gactggtgac                                        20


<210> 610
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
        Construct
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<400> 610
cagacctgtc cacattcgtg   20

<210> 611
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 611
gtagaagggc tgtggcattc   20

<210> 612
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 612
cgccctaaag actccaagac   20

<210> 613
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 613
ccctgtgtct tctagctgtg c   21

<210> 614
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 614
ctgccctcag agatgattcc   20

<210> 615
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 615
gcgtctgtag agatccaggc   20

<210> 616
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 616

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ggcatatccc acaatccaag                                          20

<210> 617
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 617
cggaacacac agagtgatgg                                          20

<210> 618
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 618
tctaactcga gcatcagccc                                          20

<210> 619
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 619
ttctttgcat ctccaagcct                                          20

<210> 620
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 620
catggaagga tcagactggc                                          20

<210> 621
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 621
catctgggtg gcttgtcata                                          20

<210> 622
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 622
gaagcagggc aagtgttgat                                          20
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<210> 623
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 623
atgctgtttc tttcttgggc                                              20


<210> 624
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 624
aatgatcagg atgggtcagg                                              20


<210> 625
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 625
cactagggaa cacgggtacg                                              20


<210> 626
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 626
tctgtgtccc actgcacact                                              20


<210> 627
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 627
agactggatg tatttgggcg                                              20


<210> 628
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 628
gctgctgcag ggagatttat                                              20


<210> 629
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<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 629
agatggctgt gtgtgtggag                                            20


<210> 630
<211> 20
<212> DNA
<213> Artificial Sequence .
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 630
ttccttctgc aaattggtcc                                            20


<210> 631
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 631
gccactcaag ccagacact                                             19


<210> 632
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 632
tgattccggc tcaaacctac                                            20


<210> 633
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 633
ggaatgatgt agcctttgcc                                            20


<210> 634
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 634
ttgggtagct tgatcttgcc                                            20


<210> 635
<211> 20
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<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 635
gatacgggtc aagctgtggt                                              20


<210> 636
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 636
cagtcctggg agagttcagc                                              20


<210> 637
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 637
tctcggagtg tccctaggtc                                              20


<210> 638
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 638
ggcaagcaat gagaggagac                                              20


<210> 639
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 639
tacctccgga gacttcatgc                                              20


<210> 640
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 640
ctcctgggac catctctgaa                                              20


<210> 641
<211> 20
<212> DNA
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```
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 641
cccttcactg ggctatttca                                            20


<210> 642
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 642
atctttgggt atgctgggtg                                            20


<210> 643
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 643
ttcctgtggc tgcagaaag                                             19


<210> 644
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 644
agcaagtgtt tcagtgccaa                                            20


<210> 645
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 645
ttccgttctg actcatctgg                                            20


<210> 646
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 646
gggccttaaa tgcctgatct                                            20
<210> 647
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
```

<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 647
tgtggctgtc ccattgtcta   20

<210> 648
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 648
tcagcgaagc ctgatcctac   20

<210> 649
<211> 18
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 649
aggacccagg ctccatgt   18

<210> 650
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 650
gcatctgtgc tagcaatcca   20

<210> 651
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 651
gtcaccacag gctgctcac   19

<210> 652
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 652
aaccacgtca ggagatgacc   20

<210> 653
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic

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            Construct
<400> 653
tgggttggac ctgtaccttc                                                    20


<210> 654
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 654
tccttccatc tgggattctg                                                    20


<210> 655
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 655
gcactgacat ccatcacacc                                                    20


<210> 656
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 656
ttgtctgggt gaaatctggc                                                    20


<210> 657
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 657
ggtgctggaa ttgtgatcct                                                    20


<210> 658
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 658
gcagatgtca aagttggggt                                                    20


<210> 659
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
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```
<400> 659
gagggaggcc aacatctaca                                           20

<210> 660
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 660
ctgaacccctt ccagtgagga                                          20

<210> 661
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 661
tgaacaggat gcatttggaa                                           20

<210> 662
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 662
cctaaggaag gtctccaccc                                           20

<210> 663
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 663
agagagggca gggagacaat                                           20

<210> 664
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 664
ggattgagtc ttgcccagat                                           20

<210> 665
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 665
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ccaaccaaat gctgaaacct   20

<210> 666
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 666
gttatcccag cccacacttg   20

<210> 667
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 667
gttcctttct ggctccctct   20

<210> 668
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 668
aacaccatcc catcaccagt   20

<210> 669
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 669
cacgagaata gcatgggaaa   20

<210> 670
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 670
tactgacact ggccttccct   20

<210> 671
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 671
tgtttctgat aagggcctgg   20

```
<210> 672
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 672
ggagcttctg ttgggatcaa                                              20


<210> 673
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 673
acactcaggc ccagtacagc                                              20


<210> 674
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 674
tgtgatgagc caggttcttg                                              20


<210> 675
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 675
tgagcctcca tttctccatc                                              20


<210> 676
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 676
cagtggcatc acaggtcagt                                              20


<210> 677
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 677
aagcctggag ctagtggaca                                              20


<210> 678
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<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 678
cagaggaagc caggacctaa                                            20


<210> 679
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 679
atctctgaga agcccaccct                                            20


<210> 680
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 680
gaagccaaga agcagactgg                                            20


<210> 681
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 681
agagccagaa ggtgacttgc                                            20


<210> 682
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 682
caacccaaag ttcagtgcag                                            20


<210> 683
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 683
tgcactgaac tttgggttga                                            20


<210> 684
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```
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 684
agacagcagt ggtggtgaca                                                    20


<210> 685
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 685
ttgggaggat taatggagcc                                                    20


<210> 686
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 686
acctctactg acaggcccac                                                    20


<210> 687
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 687
gatggaatgg gagacaatgg                                                    20


<210> 688
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 688
gggaggaaag agggagaatg                                                    20


<210> 689
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 689
gctatgatgc atgcaaatgt t                                                  21


<210> 690
<211> 20
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```
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 690
ctgcatcttg aattcgctga                                           20


<210> 691
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 691
cagcacccag aagaggagg                                            19


<210> 692
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 692
ggactaagag cctccaaggg                                           20


<210> 693
<211> 19
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 693
gtcctctccc agcctcttg                                            19


<210> 694
<211> 20
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence; Note=Synthetic
      Construct
<400> 694
actgcttctc agctgcctct                                           20
```